

Date 2019.06.13.  
Date of  
revision:Site: 1/9  
Version nb: 1**SAFETY DATA SHEET**  
(According to Regulation 2015/830)**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1. 1. Product identifier**Product name: **KEROX PREMIA PMMA CAD-CAM DISC****1. 2. Relevant identified uses of the substance or mixture and uses advised against**Fabrication of temporary crowns and bridges, verification of bridge on the plaster model / mouth before the final ZrO<sub>2</sub> milling process.**1. 3. Details of the supplier of the safety data sheet**

**Manufacturer/ Supplier:** Kerox Kft.  
Address: 2038 Sósút, Kerox utca 1.  
Tel.: +36 23 382 006 /281 Fax: +36 23 545 215 Email: info@keroxdental.net

**Distributor:** Kerox Kft.  
Address: 2038 Sósút, Kerox utca 1.  
Tel.: +36 23 382 006 /281 Fax: +36 23 545 215 Email: info@keroxdental.net

**Importer/ Distributor:** Kerox Kft.  
Address: 2038 Sósút, Kerox utca 1.  
Tel.: +36 23 382 006 /281 Fax: +36 23 545 215 Email: info@keroxdental.net

**Responsible for the Safety Data Sheet:** Kerox Kft.  
00-36-23-382-006  
info@keroxdental.net

**1. 4. Emergency telephone number**EGÉSZSÉGÜGYI TOXIKOLÓGIAI TÁJÉKOZTATÓ SZOLGÁLAT (ETTSZ)  
1096 Budapest, Nagyvárad tér 2.  
Tel: 06-80-20-11-99 (24 h, for emergency only)**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification according to 1272/2008/EC**

The substance or mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP/GHS).

-

**2.2. Label elements****Label elements according to 1272/2008/EC directive**Identity of all substances in -  
the mixture that contribute  
to the classification of the  
mixture:**Hazard Statements (H- phrases)**

- - Not assigned

**Precautionary Statements (P- phrases)**

- - Not assigned

**Supplemental hazard information****2.3. Other hazards**

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

The full text of H phrases see Section 16 point.



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Version nb: 1**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

The product is a mixture, not a substance.

**3.2. Mixtures**

| Product identifiers | Designation and Classification of components | Amount |
|---------------------|--|--------|
| CAS 9011-14-7       | Poly (methyl methacrylate)                   | - %    |

The substance or mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP/GHS). -

- Dimethacrylates - %

The substance or mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP/GHS). -

- Pigments - %

The substance or mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP/GHS). -

(You can see full text of H sentences at 16 point.)

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****4.1.1. Inhaling**

remove from exposure and move to fresh air immediately; loss of consciousness, the victim in recovery position should be fixed, if not breathing, give artificial respiration, if breathing is difficult, give oxygen; get medical aid; When symptoms persist or in all cases of doubt seek medical advice.

**4.1.2. Eyes**

when substance has got into eyes, wash out immediately with plenty of water for at least 15 minutes, remove contact lenses, get medical attention if irritation develops,

**4.1.3. Skin**

Wash affected skin with plenty of water and soap, remove soiled clothing immediately, if have complain seek medical attention,

**4.1.4. Swallowed**

When vomiting, the head should be turned sideways.

Unconsciousness must be placed and transported in a fixed position in case of danger, if have complain seek medical attention,

**4.2. Most important symptoms and effects, both acute and delayed**

No data



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#### 4.3. Indication of any immediate medical attention and special treatment needed



Get medical attention if irritation develops, show the data sheet or product label to the doctor, Instructions for the doctor: symptomatic treatment.

## SECTION 5: FIREFIGHTING MEASURES

Fire class according to the National Fire Protection Code (54 / 2014. (XII. 5) BM)



**Non-flammable class**

#### 5.1. Extinguishing media

use extinguishing material suitable to the near fire circumstances, water spray foam, CO2, dry chemical,

#### 5.1.1. Unsuitable extinguishing materials

Use water jets only to cool the surfaces of the goods exposed to fire.

#### 5.2. Special hazards arising from the substance or mixture

No information available.

#### 5.3. Advice for firefighters

pneumatic breathing-mask (EN137) Keep adjacent containers cool by spraying with water. If possible, the product needs to be towed out of danger. if possible, the extinguishing water should not be discharged into the sewer;

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Respiratory protection is not required for routine use;

#### 6.2. Environmental precautions

Prevent that the substance in water, agricultural land and gutter gets, if the substance has entered the water, indicate to the authority;

#### 6.3. Methods and material for containment and cleaning up

use inorganic fluid-absorbing material (diatomaceous earth or universal binder) to pick up. Collect spilled material as much as possible and store in acid-proof container (Polyethylene, etc); in closed vessel carry to destroying place,

#### 6.4. Reference to other sections

find the personal protective equipments in the 8.

## SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

##### 7.1.1. Technical precautions

provide adequate local ventilation; Avoid inhalation of dust.  
Avoid contact with eyes.

##### 7.1.2. Safe handling guidance

Only adequate trained persons may deal with product. Individuals handling the substance must not eat, drink or smoke.  
Wash hands thoroughly after contact with the substance.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### 7.2.1. Technical measures/storage conditions

Keep in dry storage. Keep away from children.

##### 7.2.2. Incompatible products

Unknown.

##### 7.2.3. Packaging materials

Keep in original, close packing. Keep in dry storage.

#### 7.3. Specific end use(s)

For use in dentistry only.



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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Limit values of Joint Decree 25/2000 ACGIH TLV:

| Component name:               | AK value (mg/m <sup>3</sup> ) | CK value (mg/m <sup>3</sup> ) | MK value (mg/m <sup>3</sup> ) |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1. Poly (methyl methacrylate) | -                             | -                             | -                             |
| 2. Dimethacrylates            | -                             | -                             | -                             |
| 3. Pigments                   | -                             | -                             | -                             |

### Other

### 8.2. Exposure controls

provide adequate local ventilation;

#### 8.2.1. Appropriate engineering controls

#### 8.2.2. Individual protection measures, such as personal protective equipment

##### 8.2.2. a) Eye/face protection



Wear safety goggles during mechanical processing.

##### 8.2.2. b) Skin protection

none required with normal consumer use,

##### 8.2.2. b)i. Hand protection



none required with normal consumer use,

##### 8.2.2. c) Respiratory protection



Avoid contact with powder generated by final working.  
Wear respiratory protective device in case of dust formation.

##### 8.2.2. d) Thermal hazard

No data

#### 8.2.3. Environmental exposure control

Do not allow to enter ground water, surface water or sewage system.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### 9.1. a) Appearance

Consistence: firm disc

Colour: Different

#### 9.1. b) Odour

Odourless

#### 9.1. c) Odour Threshold

No data

#### 9.1. d) pH-value

Not applicable / Nem alkalmazható

#### 9.1. e) Melting point/freezing point

Nincs meghatározva / Undetermined

#### 9.1. f) Initial boiling point and boiling range

Nincs meghatározva / Undetermined

#### 9.1. g) Flash-point:

> 250 °C

#### 9.1. h) Evaporation rate

Nincs elérhető adat / No data

#### 9.1. i) Flammability (solid, gas)

Not flammable.

#### 9.1. j) Upper/lower Flammability or explosive limits



|   |                                     |                                     |                            |
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|   | - lower:                            | Nincs meghatározva / Not determined |                            |
|   | - upper:                            | Nincs meghatározva / Not determined |                            |
| <b>9.1. k) Vapour Pressure (20°C):</b>                  |                                     | Not applicable / Nem alkalmazható   |                            |
| <b>9.1. l) Vapour Density:</b>                          |                                     | Nincs elérhető adat / No data       |                            |
| <b>9.1. m) Relative density</b>                         |                                     | 1,17 g/cm <sup>3</sup>              |                            |
| <b>9.1. n) Solubility(ies)</b>                          |                                     |                                     |                            |
|   | - Water:                            | insoluble,                          |                            |
|   | - Other solvents:                   | No data                             |                            |
| <b>9.1. o) Partition coefficient (n-octanol/water):</b> |                                     | Nincs elérhető adat / No data       |                            |
| <b>9.1. p) Auto-ignition temperature</b>                |                                     | Nincs elérhető adat / No data       |                            |
| <b>9.1. q) Decomposition Temperature:</b>               |                                     | Nincs elérhető adat / No data       |                            |
| <b>9.1. r) Viscosity:</b>                               |                                     | Not applicable / Nem alkalmazható   |                            |
| <b>9.1. s) Explosive properties</b>                     |                                     | Not explosive                       |                            |
| <b>9.1. t) Oxidising properties</b>                     |                                     | Nincs elérhető adat / No data       |                            |
| <b>9.2. Other Informations</b>                          |                                     |                                     |                            |
|   | Specific gravity (water=1), (20°C): | Nincs elérhető adat / No data       |                            |
|   | Other items:                        | No data                             |                            |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data.

### 10.2. Chemical stability

The product is stable under normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

unknown,

### 10.4. Conditions to avoid

Decomposition begins at appr. 250 ° C.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

no danger in normal use, May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Actual material

KEROX PREMIA PMMA CAD-CAM DISC

### 11.1. Information on toxicological effects

#### 11.1.a. Acute toxicity

##### Inhalation

No information available.

According to reports in animals

##### Oral

The similar product has been tested according to EN ISO 10993-5 (2009):

Tests for in vitro cytotoxicity.

The test article extract met the requirements of the EN ISO 10993-5 (2009).

According to reports in animals

##### Dermal

No information available.



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According to reports in animals

#### 11.1.b. Skin corrosion/ Skin irritation

The similar product has been tested according to EN ISO 10993-10 (2010):

Tests for irritation.

An intracutaneous irritation test by intradermal injection in the rabbit has been performed and the test article extract met the requirements of the ISO 10993-10 (2010).

#### 11.1.c. Serious eye damage/ Eye irritation

No information available.

#### 11.1.d. Respiratory or skin sensitisation

The similar product has been tested according to EN ISO 10993-10 (2010):

Tests for skin sensitization.

According to the EN ISO 10993-10 (2010) the product did not induce delayed sensitization.

#### 11.1.e. Germ cell mutagenicity

No information available.

#### 11.1.f. Carcinogenicity

No information available.

#### 11.1.g. Reproductive toxicity

No information available.

#### 11.1.h. Specific target organ toxicity — single

No information available.

#### 11.1.i. Specific target organ toxicity — repeated exposure

No information available.

#### 11.1.j. Aspiration hazard

No information available.

#### 11.2. Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available.

#### 11.3. Other informations

No information available.

## SECTION 12: ECOLOGICAL INFORMATION

#### Actual material

KEROX PREMIA PMMA CAD-CAM DISC

#### 12.1. Toxicity

##### 12.1.1. Water toxicity

No further relevant information available, no evidence for hazardous properties.

##### 12.1.2. Terrestrial toxicity

No information available.

##### 12.1.3. Behaviour in waste water treatment plants

No information available.

#### 12.2. Persistence and degradability

##### 12.2.1. General

No further relevant information available, no evidence for hazardous properties.

##### 12.2.2. In water

No information available.

##### 12.2.3. In air

No information available.

##### 12.2.4. In soils and sediments

No information available.

#### 12.3. Bioaccumulative potential

No further relevant information available, no evidence for hazardous properties.



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**12.4. Mobility in soil**

No further relevant information available, no evidence for hazardous properties.

**12.5. Results of PBT and vPvB assessment**

PBT and vPvB ingredients are not present.

**12.6. Other adverse effects**

No further relevant information available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Observe all state and local environmental regulations. The appropriate waste management method should be selected taking into account the composition of the product, the time available, the local regulations or the local regulations. the available treatment methods.

**13.2. Package disposal**

Handling and disposal of contaminated packaging must be carried out in accordance with the product specifications;

**13.3. Waste identification codes**

Residue: 18 01 07 chemicals other than those mentioned in 18 01 06

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number** -

**ADR/ADN/RID**

14.2. Proper shipping name: Not subject to the regulations.

14.3. Transport hazard class(es): -

Labels: -

Classification code -

14.4. Packing group: -

Hazard identification number: -

14.5. Environmental hazards: NO

Tunnel restriction code: -

**IMDG**

14.2. Proper shipping name:

14.3. Transport hazard class(es) -

Labels -

14.4. Packing group: -

EmS: -

Marine pollutant: NO

**IATA**

14.2. Proper shipping name: Not subject to the regulations.

14.3. Transport hazard class(es): -

Labels -

14.4. Packing group: -

PAX: -

CAO: -

UN number: -

**14.6. Special precautions for user**

No information available.



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- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
No information available.

## SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
REACH list of substances subject to authorization (Annex XIV): The product is not subject to REACH restrictions.
- 15.2. Chemical Safety**  
REACH Chemical safety report was made.
- 15.3. Seveso category**  
**(219/2011. (X.20.) Korm.rendelet szerint)**  
-
- 15.4. Storage category**  
13 stowage class: Not combustible solid substances
- 15.5. WGK - German Water hazard classes**  
-
- 15.6. Other relevant national regulations**  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC  
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulations Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006  
2000 XXV. law Chemical Safety  
Decree No. 44/2000 (XII. 27.) of the Minister of Health on the detailed rules of certain procedures and activities related to hazardous substances and hazardous products, as amended by Decree No. 25/2000. (IX. 30.) Joint Decree of the Minister of Health, Ministry of Social and Family Affairs chemical safety of workplaces  
54/2014. (XII. 5) Minister of Interior on the National Fire Protection Regulations  
1993. XCIII. law occupational protection Act on Occupational Health and Safety at Work Decree 5/1993. (XII.26.) MüM regulations in a uniform structure  
Waste: 2012 CLXXXV. Law on waste; 225/2015. (VIII.7.) Government Decree on detailed rules for certain activities related to hazardous waste.  
Decree 72/2013 (VIII.27.) Of the Ministry of Agriculture on the Waste List; 442/2012. (XII.29.) On packaging waste and packaging waste management activities.  
Road transport Class: 2015 LXXXIX. Law and the European Agreement concerning the International Carriage of Dangerous Goods 61/2013 "A" on certain issues and Annex "B" and the promulgation of the domestic application. NFM Regulation (X.17.); 178/2017. (VII.5.) government decree;  
Rail transport: 2015 LXXXIII. International Railway Act, the appendix, the Protocol dated 3 June 1999 amending Transport Convention (COTIF), adopted in Vilnius Annex C promulgation and application of certain aspects of the domestic and the domestic application of the promulgation of 62/2013. NFM Regulation (X.17.); 179/2017. (VII.5.) government decree;  
Inland transport: the 2015 LXXXIV. Done at Geneva Act, 2000, the day of May 26, Dangerous Goods annexed to the European Agreement concerning the International Inland Waterway (ADN) promulgation of the Rules and domestic application; 177/2017. (VII.5.) government decree;

## SECTION 16: OTHER INFORMATION

- 16.1.a. The review affected this chapters:**
- 16.1.b. The abbreviation and acronyms used in Safety data sheet**





|                              |             |                      |          |
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REACH Registration, Evaluation, Authorisation and restriction of Chemicals  
CSR Chemical Safety Report

ÁK value (permissible average concentration): the average concentration of air pollutant in workplace air for a shift which does not normally have an adverse effect on the worker's health,

CK value (permissible peak concentration) (shortest allowable maximum air contamination):

MK value (maximum concentration): highest concentration tolerated during shift

OEL Occupational Exposure Limit

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

LD50 Lethal Dose 50%

LC50 Lethal Concentration 50%

EC50 Effective Concentration 50%

NOEL No Observable Effect Level

NOEC No Observable Effect Concentration

NOAEC No Observable Adverse Effect Concentration

NOAEL No Observable Adverse Effect Level

STP Sewage Treatment Plant

PBT Persistent, Bioaccumulative, and Toxic

vPvB Very persistent and very bioaccumulative

#### 16.1.c. Key literature references and sources for data

SAFETY DATA SHEET - PMMA CAD-CAM DISC - E4K Ltd. - 01.10.2014

#### 16.1.d. H- phrases

-- Not assigned

#### 16.2. Technical advisory services

Kerox Kft.

Address: 2038 Sóskút, Kerox utca 1.

Tel.: +36 23 382 006 /281 Fax: +36 23 545 215

#### 16.3. Further information

MSDS is based on the manufacturer's MSDS.

#### 16.4. General information

This information relates TO THE PRODUCT AS SUCH and is in compliance with the specifications of the enterprise.

In case of products and mixtures, it should be ensured that no new risks arise.

The information on this data sheet is based on our best knowledge at the time of printing the safety data sheet and is provided in good faith. However, certain data are being reviewed.

Users should note the potential for additional risks in case of using the product for purposes other than the recommended application. This data sheet may be used and reproduced for prevention and safety purposes only. The references to legislation, regulations and practical rules, and documents should not be considered complete.

It is the responsibility of the person receiving the product to consult all documents related to the use and handling of the product.

The responsibility of parties handling the product also includes to pass on the whole of the information listed on the safety data sheet and necessary for work safety and for the protection of health and the environment, to the next person who may get in contact in any way with the product (use, storage, cleaning of containers, other operations).

